

Cloud: SRA, BLAST®, RAPT



Explore NCBI data and tools on Amazon Web Services (AWS) and Google Cloud Platform (GCP)!



SRA IN THE CLOUD

All of NIH's [Sequence Read Archive](#) (SRA) on [AWS](#) and [GCP](#). No cost access for [COVID-datasets](#).

[Learn More](#)

Benefits of SRA in the Cloud

- Speed: faster access to large datasets plus compute!
- Parallelize your SRA data analysis with cloud compute.
- Reproducibility: work collaboratively!

Interested in attribute-based datasets? Try:

- AWS Athena Webinar (Oct 14) [Register](#).
- [GCP's BigQuery](#).

Let us know which attributes are the most valuable to you at sra@ncbi.nlm.nih.gov.

How NCBI Helps You

- Tutorials & more on [YouTube!](#)
- [Download](#) the most recent version of the SRA Toolkit (**2.10.8**)!
- NCBI will host training/workshops customized to your needs. Request training at sra@ncbi.nlm.nih.gov



RAPT

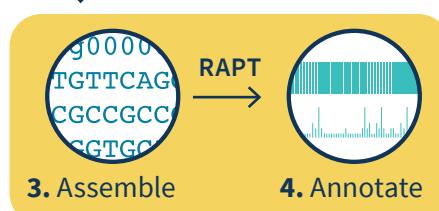
Read Assembly and Annotation Pipeline Tool (RAPT) - a standalone pipeline to assemble and annotate genes on bacterial genomes.

[Learn More](#)

Benefits of RAPT

- Provide Illumina genomic reads for your bacterial isolate, and voila! RAPT will assemble and produce an annotation, conforming to what the pipeline internal to NCBI would generate.
- Run on GCP: pay for resources *only* when you need them.

1. Collect DNA → 2. Sequence



5. Review → 6. Genome analysis

Tell us more about your analyses plus be a tester!

Contact us at
prokaryote-tools@ncbi.nlm.nih.gov
to participate.



BLAST® & DOCKER

Docker version of NCBI BLAST+ is now available on [AWS](#) and [GCP](#), with access to 23 different BLAST® databases.

[Learn More](#)

Benefits of BLAST® & Docker

- Easy installation and maintenance of the BLAST® application and databases.
- Easier integration of BLAST® with other tools in analysis pipelines.
- Access to pre-loaded BLAST® dbs and GCP and AWS.

Coming soon - ElasticBLAST!

- Perform large scale BLAST® queries.
- Based on Kubernetes to containerize and process large queries.

Tell us more about your analyses plus be a tester!

- Alpha version is live on GCP!
- Email Dave Arndt at arndtdj@nih.gov.
- Send us your feedback at blast-help@ncbi.nlm.nih.gov.

